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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/733,449      | 12/07/2000  | Kyle E. Powell       | 1001.2.2            | 2679             |

7590 12/17/2004

Brian C. Kunzler  
10 West 100 South  
Salt Lake City, UT 84101

**RECEIVED**

DEC 28 2004

Technology Center 2100

EXAMINER

LIM, KRISNA

ART UNIT PAPER NUMBER

2153

DATE MAILED: 12/17/2004

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1044 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1044 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 12/17/2004

Brian C. Kunzler  
10 West 100 South  
Salt Lake City, UT 84101

EXAMINER

LIM, KRISNA

ART UNIT

PAPER NUMBER

2153

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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

09/733,449

12/07/2000

Kyle E. Powell

1001.2.2

2679

TITLE OF INVENTION: INTERNET CONTENT DELIVERY ACCELERATION SYSTEM EMPLOYING A HYBRID CONTENT SELECTION SCHEME

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | YES          | \$700     | \$300           | \$1000           | 03/17/2005 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# **PART B - FEE(S) TRANSMITTAL**

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, Virginia 22313-1450**  
**or Fax** **(703) 746-4000**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590 12/17/2004

Brian C. Kunzler  
10 West 100 South  
Salt Lake City, UT 84101

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

|                    |
|--------------------|
| (Depositor's name) |
| (Signature)        |
| (Date)             |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

|            |            |                |          |      |
|------------|------------|----------------|----------|------|
| 09/733,449 | 12/07/2000 | Kyle E. Powell | 1001.2.2 | 2679 |
|------------|------------|----------------|----------|------|

TITLE OF INVENTION: INTERNET CONTENT DELIVERY ACCELERATION SYSTEM EMPLOYING A HYBRID CONTENT SELECTION SCHEME

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|-------------|--------------|-----------|-----------------|------------------|----------|
|-------------|--------------|-----------|-----------------|------------------|----------|

|                |     |       |       |        |            |
|----------------|-----|-------|-------|--------|------------|
| nonprovisional | YES | \$700 | \$300 | \$1000 | 03/17/2005 |
|----------------|-----|-------|-------|--------|------------|

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|----------|----------|----------------|
|----------|----------|----------------|

|             |      |            |
|-------------|------|------------|
| LIM, KRISNA | 2153 | 709-208000 |
|-------------|------|------------|

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

|   |       |
|---|-------|
| 1 | _____ |
| 2 | _____ |
| 3 | _____ |

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s):

- ☐ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# Notice of Allowability

Application N .

09/733,449

Examiner

Krisna Lim

Applicant(s)

POWELL ET AL.

Art Unit

2153

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-28.
3. ☒ The drawings filed on 07 December 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- |  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                     | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

Pursuant to 37 C.F.R. 1.109 and M.P.E.P 1302.14, the following is an Examiner's Statement of Reasons for Allowance:

The prior arts of record do not teach the Internet content delivery acceleration system comprising a central proxy server, local proxy servers and a priority determination module. The central proxy server selects and transmits popular digital objects to local proxy servers over a communication medium. The local proxy servers concurrently receive the selected digital objects from the central proxy server and providing the selected digital objects to a caching database in local communication with the local proxy server in order to make the selected digital objects available to a plurality of user stations communicating with the cache database. The priority determination module uses both local priority data and global priority data in making a localized priority determination regarding digital objects stored in the caching database. Moreover, the prior arts of record do not teach a method of operating redundant proxy servers, which are similarly configured and provide with a token. Select one of the redundant proxy servers as a master and the other as a back up. Establish a failure with the master by the back up in response to: incrementing the token within the back up, transmitting the backup's token to a client station; and the backup assuming operation as the master.

The examiner considers the applicants' claims 1-28 to be allowable based on the claim interpretation and the aforesaid prior arts of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krisna Lim whose telephone number is 571-272-3956. The examiner can normally be reached on Monday to Wednesday and Friday from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenton Burgess, can be reached on 571-272-3949. The fax phone

Art Unit: 2153

number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KI

December 8, 2004



KRISNA LIM  
PRIMARY EXAMINER



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Technology Center 2100

Page 1 of 1

|  |   |                                 |
|--|---|---------------------------------|
| FORM PTO-1449<br><br><b>LIST OF PATENTS AND PUBLICATIONS<br/>FOR APPLICANT'S INFORMATION<br/>DISCLOSURE STATEMENT</b><br><br>(use several sheets if necessary) | SERIAL NO.<br>09/733,449  | ATTORNEY DOCKET NO.<br>1001.2.2 |
|  | FILING DATE<br>May 7, 2001                                      | GROUP ART UNIT 2152             |
|  | APPLICANT(S):<br>Kyle E. Powell, Mark B. Hurst, Karl G. Merkley |                                 |

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

| EXAMINE<br>R<br>INITIAL |     | DOCUMENT<br>NUMBER | DATE     | NAME                | CLASS/<br>SUBCLASS | FILING<br>DATE |
|-------------------------|-----|--------------------|----------|---------------------|--------------------|----------------|
| <i>KL</i>               | A1  | 4,807,224          | 02/21/89 | Naron et al.        | 370/94             | 08/21/87       |
|                         | A2  | 5,007,017          | 04/09/91 | Kobayashi           | 364/900            | 04/06/87       |
|                         | A3  | 5,079,767          | 01/07/92 | Perlman             | 370/94.3           | 08/25/89       |
|                         | A4  | 5,262,875          | 11/16/93 | Mincer et al.       | 358/335            | 04/30/92       |
|                         | A5  | 5,341,474          | 08/23/94 | Gelman et al.       | 395/200            | 05/15/92       |
|                         | A6  | 5,347,632          | 08/13/94 | Filepp et al.       | 395/200            | 07/28/89       |
|                         | A7  | 5,412,660          | 05/02/95 | Chen et al.         | 370/110.1          | 09/10/93       |
|                         | A8  | 5,442,771          | 08/15/95 | Filepp et al.       | 395/650            | 11/26/93       |
|                         | A9  | 5,506,902          | 04/09/96 | Kubota              | 380/9              | 04/15/94       |
|                         | A10 | 5,511,208          | 04/23/96 | Boyles et al.       | 395/800            | 03/23/93       |
|                         | A11 | 5,548,724          | 08/20/96 | Akizawa et al.      | 395/200.03         | 03/21/94       |
|                         | A12 | 5,572,643          | 11/05/96 | Judson              | 395/793            | 10/19/95       |
|                         | A13 | 5,583,997          | 12/10/97 | Hart                | 395/200.15         | 06/01/95       |
|                         | A14 | 5,588,005          | 12/24/96 | Ali et al.          | 370/346            | 06/07/95       |
|                         | A15 | 5,588,060          | 12/24/96 | Aziz                | 380/30             | 06/10/94       |
|                         | A16 | 5,592,511          | 01/07/97 | Schoen et al.       | 375/220            | 01/29/96       |
|                         | A17 | 5,592,626          | 01/07/97 | Papdimitriou et al. | 395/200.09         | 05/19/94       |
|                         | A18 | 5,594,490          | 01/14/97 | Dawson et al.       | 348/6              | 05/23/94       |
|                         | A19 | 5,614,940          | 03/25/97 | Cobbley et al.      | 348/7              | 10/21/94       |
|                         | A20 | 5,619,654          | 08/08/97 | Mukai et al.        | 395/200.09         | 07/01/94       |
|                         | A21 | 5,625,864          | 04/29/97 | Budow et al.        | 455/4.2            | 06/30/95       |
|                         | A22 | 5,633,933          | 05/27/97 | Aziz                | 380/30             | 07/15/96       |

EXAMINER

*KRISNA LIM*

DATE CONSIDERED

*12/6/04*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



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Page 2 of 1

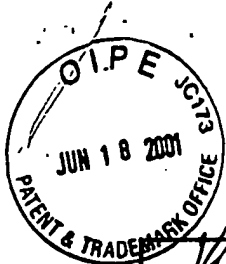
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JUN 13 2001

| EXAMINE<br>R<br>INITIAL |     | DOCUMENT<br>NUMBER | DATE     | NAME            | CLASS/<br>SUBCLASS | FILING<br>DATE | Group 2100 |
|-------------------------|-----|--------------------|----------|-----------------|--------------------|----------------|------------|
| <i>K</i>                | A23 | 5,644,714          | 07/01/97 | Kikinis         | 395/200.03         | 04/10/95       |            |
|                         | A24 | 5,649,103          | 07/15/97 | Datta et al.    | 395/200.03         | 07/200.03      |            |
|                         | A25 | 5,657,450          | 08/12/97 | Rao et al.      | 395/610            | 11/15/95       |            |
|                         | A26 | 5,659,615          | 08/19/97 | Dillon          | 380/21             | 11/14/94       |            |
|                         | A27 | 5,689,648          | 11/18/97 | Diaz et al.     | 395/226            | 01/31/92       |            |
|                         | A28 | 5,727,002          | 03/10/98 | Miller et al.   | 371/32             | 01/16/96       |            |
|                         | A29 | 5,727,129          | 03/10/98 | Barrett et al.  | 395/12             | 06/04/96       |            |
|                         | A30 | 5,727,159          | 03/10/98 | Kikinis         | 395/200.76         | 04/10/96       |            |
|                         | A31 | 5,734,823          | 03/31/98 | Saigh et al.    | 395/200.06         | 07/25/96       |            |
|                         | A32 | 5,737,619          | 04/07/98 | Judson          | 395/761            | 09/09/96       |            |
|                         | A33 | 5,740,549          | 04/14/98 | Reilly et al.   | 705/14             | 06/12/95       |            |
|                         | A34 | 5,745,754          | 04/28/98 | Lagarde et al.  | 395/616            | 06/07/95       |            |
|                         | A35 | 5,748,736          | 05/05/98 | Mittra          | 380/21             | 06/14/96       |            |
|                         | A36 | 5,752,246          | 05/12/98 | Rogers et al.   | 707/10             | 06/07/95       |            |
|                         | A37 | 5,757,916          | 05/26/98 | MacDoran et al. | 380/25             | 10/06/95       |            |
|                         | A38 | 5,758,293          | 05/26/98 | Frasier         | 455/556            | 03/06/96       |            |
|                         | A39 | 5,761,602          | 06/02/98 | Wagner et al.   | 455/3.1            | 09/13/95       |            |
|                         | A40 | 5,761,663          | 06/02/98 | Lagarde et al.  | 707/10             | 05/15/97       |            |
|                         | A41 | 5,768,539          | 06/16/98 | Metz et al.     | 395/200.79         | 12/17/96       |            |
|                         | A42 | 5,781,909          | 07/14/98 | Logan et al.    | 707/200            | 02/13/96       |            |
|                         | A43 | 5,793,813          | 08/11/98 | Cleave          | 375/259            | 06/06/96       |            |
|                         | A44 | 5,793,964          | 08/11/98 | Rogers et al.   | 395/200.32         | 06/07/95       |            |
|                         | A45 | 5,802,299          | 09/01/98 | Logan et al.    | 395/200.48         | 02/13/96       |            |
|                         | A46 | 5,805,815          | 09/08/98 | Hill            | 395/200.48         | 12/18/95       |            |
|                         | A47 | 5,805,824          | 09/08/98 | Kappe           | 395/200.72         | 02/28/96       |            |
|                         | A48 | 5,987,233          | 11/16/99 | Humphrey        | 395/200.47         | 03/16/98       |            |
|                         | A49 | 5,991,306          | 11/23/99 | Burns et al.    | 370/429            | 08/26/96       |            |
| <i>V</i>                | A50 | 5,623,656          | 04/22/97 | Lyons           | 395/610            | 12/15/94       |            |

|                            |                                |
|----------------------------|--------------------------------|
| EXAMINER <i>KRISNA LIM</i> | DATE CONSIDERED <i>12/6/04</i> |
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).





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|          |     |           |          |                   |         |          |
|----------|-----|-----------|----------|-------------------|---------|----------|
| <i>K</i> | A51 | 5,434,994 | 07/18/95 | Shaheen et al.    | 395/500 | 05/23/94 |
|          | A52 | 5,699,528 | 12/16/97 | Hogan             | 395/240 | 10/31/95 |
|          | A53 | 5,740,164 | 04/14/98 | Liron et al.      | 370/316 | 07/07/95 |
|          | A54 | 5,754,938 | 05/19/98 | Herz et al.       | 455/4.2 | 10/31/95 |
|          | A55 | 5,774,660 | 06/30/98 | Brendel et al.    | 395/200 | 08/05/96 |
|          | A56 | 6,141,333 | 10/31/00 | Chavez            | 370/338 | 09/30/97 |
|          | A57 | 6,055,569 | 04/25/00 | O'Brien et al.    | 709/223 | 01/27/98 |
|          | A58 | 5,797,001 | 08/18/98 | Augenbraun et al. | 395/609 | 09/26/96 |
|          | A59 | 5,935,207 | 08/10/99 | Logue et al.      | 709/219 | 04/09/97 |
|          | A60 | 6,085,234 | 07/04/00 | Pitts et al.      | 709/217 | 07/23/98 |
|          | A61 | 5,740,430 | 04/14/98 | Rosenberg et al.  | 395/616 | 11/06/95 |
|          | A62 | 5,758,087 | 05/26/98 | Aaker et al.      | 395/200 | 06/14/96 |
|          | A63 | 6,003,082 | 12/14/99 | Gampper et al.    | 709/225 | 04/22/98 |
|          | A64 | 6,012,085 | 1/4/00   | Yohe et al.       | 709/217 | 10/22/99 |
|          | A65 | 5,710,918 | 1/20/98  | Lagarde et al.    | 395/610 | 06/07/95 |
| <i>U</i> | A66 | 5,721,908 | 2/24/98  | Lagarde et al.    | 395/610 | 06/07/95 |

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## FOREIGN PATENT DOCUMENTS

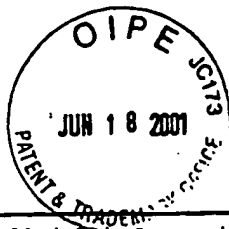
| EXAMINE<br>R<br>INITIAL |     | DOCUMENT<br>NUMBER | DATE     | COUNTRY | CLASS/<br>SUBCLASS | TRANSLATION |    |
|-------------------------|-----|--------------------|----------|---------|--------------------|-------------|----|
|                         |     |                    |          |         |                    | YES         | NO |
| <i>K</i>                | A67 | WO99-48009         | 09/23/99 | PCT     | G06F 13/00         |             |    |
| <i>K</i>                | A68 | WO00-42519         | 07/20/00 | PCT     | G06F 15/16         |             |    |

## NON-PATENT DOCUMENTS

| EXAMINE<br>R<br>INITIAL |     | DOCUMENT (Including Author, Title, Source, and Pertinent Pages)  |
|-------------------------|-----|--|
| <i>K</i>                | A69 | David Richardson, Conference Publication, Data Broadcasting-the ultimate push technology No. 447 September 12-16 1997, pp. 36-42 |

|                            |                                |
|----------------------------|--------------------------------|
| EXAMINER <i>KRISNA LIM</i> | DATE CONSIDERED <i>12/6/04</i> |
|----------------------------|--------------------------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



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JUN 19 2001

Technology Center 2100

Page 4 of 1

|   |     |  |   |
|---|-----|--|---|
| ✓ | A70 | Timothy Krout, Mark Solzman, and Joseph Goldstein, The Effects of Asymmetric Satellite Networks on Protocols, US Government Work, pp. 1072-1076.   | ✓ |
|   | A71 | Fred Bauer and Michael Brown, A Reliable Multicast Transport Protocol for a Global Broadcast Service-Based Network, Military Communications Conference, Nov.3-5 1997, pp. 988-992.       | ✓ |
|   | A72 | Jack Rickard, A Cache and Carry Internet, Boardwatch magazine, February 1998, pp. 1-7  | ✓ |
|   | A73 | Hughes Electronic Review, February 1998 Vol. 1 No. 2, pp. 1-12   | ✓ |
|   | A74 | DirecPC Will Deliver Wire Service Articles to the Desktop, Hughes Electronic Herald, August 25, 1995.  | ✓ |
|   | A75 | Steve Dorfman, Hughes Electronic Review, Vol. 1 No. 4, pp.1-14.  | ✓ |
|   | A76 | K. Stathatos, N. Roussopoulos, and J.S. Baras, Adaptive Data Broadcasting Using Air-Cache, Technical Research Report September 1996.   | ✓ |
|   | A77 | Dr. Hisham El-Shishiny, Dr. Miriam J. Masullo, and Dr. Antonio Ruiz, A Regional Broadcast-Centric Education System, IEEE Symposium on Computers and Communications July 1-3, 1997.       | ✓ |
|   | A78 | Salvatore Salamone, Teleglobe, Intelsat Announce Multicasting, Caching Effort, e-business solutions, Today's News July 22, 1998.   | ✓ |
|   | A79 | CAPT J.M. Delpino, C.L. Leonard, A.D. Yarbrough, The Global Broadcast Service: A System Overview and Acquisition Summary.  | ✓ |
|   | A80 | Intellicom, Inc., Edge Connector, January 26, 2000.  | ✓ |
|   | A81 | Voice/Data Services, Intelsat, July 17, 1998.  | ✓ |
|   | A82 | E. Markatos et al. "A Top-10 Approach to Prefetching on the Web", Technical Report 173, ICS-Forth, August 1996   | ✓ |
|   | A83 | T. Loon et al., "Alleviating the Latency and Bandwidth Problems in WWW Browsing", Proceedings of the USENIX Symposium on Internet technologies and Systems, Monterey, CA, December 1997  | ✓ |
|   | A84 | James Gwertzman et al., "The Case for Geographical Push-Caching", VINO: The 1994 Fall Harvest, Harvard TR-34-94, December 1994.  | ✓ |
|   | A85 | WebCanal White Paper, Global Information Broadcast, last updated Dec. 31, 1997, page 8.  | ✓ |
|   | A86 | Yongguang Zhang, Dante De Lucia, Bo Ryu, Son K. Dao, Satellite Communications in the Global Internet: Issuer, Pitfalls, and Potential, INET 97 Kuala Lumpur, Malaysia, June 24-27, 1997. | ✓ |
|   | A87 | James Gwertzman, Microsoft Corporation, Margo Seltzer, Harvard University, "An analysis of Geographical Push-Caching", 1997.   | ✓ |
| ✓ | A88 | DARPA ITO Sponsored Research, 1997 Project Summary.  | ✓ |

Group 2100

JUN 13 2001

RECEIVED

|                     |                         |
|---------------------|-------------------------|
| EXAMINER KRISNA LIM | DATE CONSIDERED 12/6/04 |
|---------------------|-------------------------|

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JUN 19 2001

Page 5 of 1

Technology Center 2100

|          |     |  |
|----------|-----|--|
| <i>K</i> | A89 | A. Bestavros, "Demand-based Document Dissemination for the World Wide Web", Technical Report BUCS-TR-95-003, Boston University, CS Dept, Boston, MA 02215, February 1995 |
| <i>K</i> | A90 | Lixia Zhang, Sally Floyd, and Van Jacobson, Adaptive Web Caching, April 25, 1997   |

RECEIVED  
JUN 13 2001  
Group 2100

|                            |                                |
|----------------------------|--------------------------------|
| EXAMINER <i>KRISNA LIM</i> | DATE CONSIDERED <i>12/6/04</i> |
|----------------------------|--------------------------------|

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|                                   |                                       |   |             |
|-----------------------------------|---------------------------------------|---|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>09/733,449 | Applicant(s)/Patent Under<br>Reexamination<br>POWELL ET AL. |             |
|                                   | Examiner<br>Krisna Lim                | Art Unit<br>2153  | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name              | Classification |
|---|---|--|-----------------|-------------------|----------------|
|   | A | US-6,820,132                                     | 11-2004         | Puente et al.     | 709/238        |
|   | B | US-6,038,601                                     | 03-2000         | Lambert et al.    | 709/226        |
|   | C | US-6,567,893                                     | 05-2003         | Challenger et al. | 711/118        |
|   | D | US-  |                 |                   |                |
|   | E | US-  |                 |                   |                |
|   | F | US-  |                 |                   |                |
|   | G | US-  |                 |                   |                |
|   | H | US-  |                 |                   |                |
|   | I | US-  |                 |                   |                |
|   | J | US-  |                 |                   |                |
|   | K | US-  |                 |                   |                |
|   | L | US-  |                 |                   |                |
|   | M | US-  |                 |                   |                |

**FOREIGN PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
|---|---|--|-----------------|---------|------|----------------|
|   | N |  |                 |         |      |                |
|   | O |  |                 |         |      |                |
|   | P |  |                 |         |      |                |
|   | Q |  |                 |         |      |                |
|   | R |  |                 |         |      |                |
|   | S |  |                 |         |      |                |
|   | T |  |                 |         |      |                |

**NON-PATENT DOCUMENTS**

| * |   | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|---|
|   | U |   |
|   | V |   |
|   | W |   |
|   | X |   |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
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